| Index of | Claims |
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|          |        |

| Application No. |
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10/039,333

Examiner

Binh X Tran

Applicant(s)

LEE ET AL. Art Unit

1765

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| _ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| o | Objected |

|            |          |  |              |              | _        |          |                |          |          |                |     |              |          |          |           |            |          |             |              | Д.,_           |                    |                |
|------------|----------|--|--------------|--------------|----------|----------|----------------|----------|----------|----------------|-----|--------------|----------|----------|-----------|------------|----------|-------------|--------------|----------------|--------------------|----------------|
| CI         | aim      | $oxed{\Box}$   | _            | _            |          | Da       | ıte            |          | 1        |                |     | Cla          | aim      | T        |           |            |          | Дa          | ite          |                |                    |                |
| Final      | Original | 9/2/04   |              |              |          |          |                |          |          |                |     | Final        | Original |          |           |            |          |             |              |                |                    |                |
| L          | 1        | √  | L            | $\bot$       |          | $\perp$  | $\perp$        |          |          |                |     |              | 51       | T        |           | Ť          | T        | $\top$      | T            | $\top$         | ╁                  | +              |
| <u> </u>   | 2        | ٧  |              | L            |          | L        | Ţ              |          |          |                |     |              | 52       |          | 1         |            | T        | T           |              |                | $\top$             | 1              |
|            | 3        | V  | L            | ┸            | $\perp$  |          |                |          |          | 1              |     |              | 53       |          | Ι.        |            |          |             |              | 1              | T                  | 7              |
|            | 4        | 1  | L            | 1_           | 1_       | $\perp$  |                |          |          |                | Ï   |              | 54       |          |           | Т          | I        | Т           |              |                | Τ                  | 7              |
|            | 5        | V  |              | _            |          | $\perp$  |                |          | L        | _              | _]  |              | 55       |          |           |            | Т        |             |              | T              | 7                  | T              |
| <u></u>    | 6        | V  | L            | _            | ┸        | 4_       | ┸              | 丄        |          |                | _   |              | 56       |          |           |            | $\Gamma$ |             | T            |                | T                  | T              |
| ļ          | 7        | V  | L            | ↓_           | ↓.       | $\bot$   | _              | $\perp$  | ┸        | $\perp$        | 4   |              | 57       | L.       |           |            |          |             | Ι.           | Γ              | $\perp$            | I              |
| <u> </u>   | 8        | V  | L            | _            | ╧        | 4_       | 1              | 1        |          | 1              | 4   |              | 58       | ┖        |           | <u> </u>   |          |             |              | $\perp$        | $\perp$            | $\perp$        |
|            | 9        | <b>√</b>   | _            | 1_           | ∔-       | ╄        | $\perp$        | $\perp$  | _        |                | 4   |              | 59       | ↓_       |           | L          | _        |             | $\perp$      | 1_             |                    | $\perp$        |
| <u> </u>   | 10       | 1  | L            | <u> </u>     | ╄        | _        |                |          | $\perp$  | 1              | 4   |              | 60       |          | _         | 1_         |          |             | _            |                | $\perp$            | $\perp$        |
| -          | 11       | V  | L.           | ┺            | 4        | 4        | $\perp$        |          | $\perp$  |                | _   |              | 61       | $\perp$  | <u> </u>  | L          | 1        |             | $\perp$      | $\perp$        | 上                  | $\perp$        |
| <b>├</b> — | 12       | V  | <u> </u>     | ļ            | ╄        | ┼        | -              | $\bot$   | $\perp$  | $\perp$        | -   |              | 62       | 1        | ļ_        | <u> </u>   | 丄        | 4_          | $\perp$      | ┸              | $\perp$            | $\perp$        |
|            | 13       | 1  | -            | ╄-           | 4        | - -      | +              | +        | 4        | +              | 4   |              | 63       | _        | <u> </u>  | L.         | 1        | 1_          |              | ┸              | ┸                  | 丄              |
| <u> </u>   | 14       | V  | -            | <del> </del> | +        | +        | 4              | ╀        | +        | +-             | 4   |              | 64       | 1        | <u> </u>  | L          | Ļ.,      | $\perp$     | ↓            | ╄-             | $\perp$            | $\perp$        |
|            | 15       | \<br>\<br>\  | _            | ļ            | +        | 4        | +              | ┿        |          | -              | 4   |              | 65       | _        | <u> </u>  | ļ          | _        | $\perp$     | _            | $\perp$        | $oldsymbol{\perp}$ | 1_             |
|            | 16       |  | _            | <del> </del> | $\vdash$ | ┼        | -              | ╁        | +        | +              | 4   |              | 66       |          | <u> </u>  | L.         | <u> </u> | $\perp$     | 1            | 上              | L                  | 1_             |
|            | 17       | <b>√</b>   | _            | ╀            | +        | ┼-       | ╀              | +-       | ┿-       | +              | 4   | -            | 67       | _        |           | <u>Ļ</u> . | L        | _           | <u> </u>     |                | ┸                  | 1_             |
| -          | 18       |  | _            | ₽            | ╁        | +-       | ╀              | ╄        | +        | 4-             | -   |              | 68       |          | Ь.        | <u> </u>   | <u> </u> | ┺           | 1            | ļ              | $\perp$            | ┺              |
|            | 19<br>20 | 11   |              | ⊢            |          | ┼        | ╄              | +        | +        | +              | -   | $\vdash$     | 69       | <u> </u> |           | ļ_         | <u> </u> | ┺           | 4            | _              | <u> </u>           | ┶              |
|            | 21       | 11   | -            | ├            | ┼        | ┾        | ╀              | -        | -        | +-             | 4   | -            | 70       | <u> </u> | _         | _          | ļ.,      | $\perp$     | _            | ļ              | $\perp$            | $\perp$        |
| <b></b>    | 22       | ~  |              | -            | -        |          | ┈              | ┿┈       | +        | ╀              | 4   |              | 71       | _        | _         | Ļ.,        | L        | _           | ┦_           | $\perp$        | 丰                  | ↓_             |
|            | 23       | $\vdash$   |              | -            | $\vdash$ | ╁        | +-             | ╁        | +        | +              | -   | -            | 72       | <u> </u> | ļ         |            | ┡        | ↓_          | 1            | $\vdash$       | ╄                  | ↓_             |
| $\vdash$   | 24       |  |              | ├            | ┼        | ╀        | $\vdash$       | +        | +-       | ╂              | 4   | $\vdash$     | 73       |          | L         | _          | _        | <u> </u>    | ╀            | $\vdash$       | ↓_                 | ↓_             |
|            | 25       |  |              | ┢            | +        | +-       | -              | +        | ╀        | ╁              | -   |              | 74       | $\vdash$ | <b></b> - |            | -        | ╁—          | ∔_           | <del> </del> - | 4                  | <del> </del> _ |
|            | 26       |  | _            |              | ╁        | ╁╌       | +              | ╁        | ╀        | +-             | ┨   | <u> </u>     | 75<br>76 |          | _         | _          | ├        | 1_          | ╄            | ╀              | _                  | <del> </del> — |
|            | 27       | - 1  | _            |              | -        | +-       | $\vdash$       | +        | ╁╴       | ╁              | -   |              | 77       |          |           | <u> </u>   | ┢        | -           | -            | ├              | ╄                  | ┼              |
|            | 28       | -  | _            | ┢┈           | ╁        | -        | $\vdash$       | ╁        | ╁        | ╁              | +   | $\vdash$     |          |          |           | <u> </u>   | ⊢        | ⊢           | ╁            | ├              | ├-                 | <u> </u>       |
|            | 29       | $\dashv$   | _            | $\vdash$     |          | ┼─       | ऻ              | ╁        | +        | +              | 1   |              | 78<br>79 |          |           |            | ┝-       | ┢           | ┼            | ╙              | ļ.,                | -              |
|            | 30       | 十  |              | _            | ╁        | +        | ┢              | $\vdash$ | ╁        | ╁              | 1   | <del> </del> | 80       | H        |           |            | -        | ⊢           | ╁            | -              | ├-                 | <u> </u>       |
|            | 31       |  |              |              | -        | $\vdash$ | ╁              | +-       | +        | +-             | 1   | ┝┈┼          | 81       | $\vdash$ |           | _          |          | ┢           | ┨            | ├—             | ├-                 | ╀              |
| $\neg$     | 32       |  |              |              |          | H        | <del>  -</del> | +-       | ╁╌       | ╁              | ĺ   | $\vdash$     | 82       |          |           |            | _        | -           | ╁            | ├              | -                  | ⊢              |
|            | 33       | $\neg$   |              |              | H        | ╁        | H              | $\vdash$ | ╁╌       | 十              | 1   | -+           | 83       | $\vdash$ |           |            | $\vdash$ | -           | ╂            |                | ├                  | +              |
|            | 34       | _  |              |              | t-       | -        |                | T        | t        | $^{\dagger -}$ | 1   | -            | 84       |          |           | _          |          |             | <del> </del> |                | ┝                  | H              |
|            | 35       | $\exists$  |              |              |          |          | 1-             | <b>—</b> | +-       | ╁╌             | 1   |              | 85       |          | _         |            |          | -           | ╁            | $\vdash$       | ┢                  | ╁╌             |
|            | 36       |  |              |              |          | Ι-       | Т              | Т        | $\vdash$ | lТ             | 1   | $\vdash$     | 86       |          |           |            | -        | -           | $\vdash$     | ┢              | ├-                 | $\vdash$       |
|            | 37       |  |              |              |          |          |                |          | $\vdash$ |                | 1   |              | 87       |          |           | _          |          |             | -            |                | ╁                  | ┝─             |
|            | 38       |  |              |              |          |          |                |          | 1        | $I^-$          | 1 , |              | 88       | $\dashv$ | -         | _          |          | ├┈          | $\vdash$     | -              | -                  | $\vdash$       |
|            | 39       |  |              |              |          |          |                |          | Γ        | Τ              | ]   |              | 89       | 一        |           |            |          | -           | $\vdash$     |                | H                  | $\vdash$       |
|            | 40       |  |              |              |          |          |                |          | Γ        | Γ              | 1 . |              | 90       |          | ٦         |            |          | $\vdash$    | $\vdash$     |                | $\vdash$           | H              |
|            | 41       |  |              |              |          |          |                |          | Г        | Γ              |     |              | 91       | $\dashv$ | -         | $\neg$     |          | -           |              | $\vdash$       | <u> </u>           | $\vdash$       |
|            | 42       |  |              |              |          |          |                |          |          |                |     |              | 92       |          |           |            |          |             |              |                | $\vdash$           | $\vdash$       |
|            | 43       |  |              |              |          |          |                |          |          | Γ              |     |              | 93       | $\neg$   |           |            |          |             |              |                | _                  | H              |
|            | 44       |  |              | ]            |          |          |                |          |          |                |     |              | 94       | 7        |           |            |          |             |              |                |                    |                |
|            | 45       | T  |              |              |          |          |                |          |          |                |     |              | 95       | T        |           |            |          |             | -            |                |                    | $\vdash$       |
|            | 46       | $\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | $\prod$      |              |          |          |                |          |          |                |     |              | 96       | 1        | $\neg$    |            |          | _           |              |                | _                  | H              |
|            | 47       |  |              |              |          |          |                |          |          | L              |     |              | 97       |          | ٦         | $\dashv$   |          |             |              |                |                    | $\square$      |
|            | 48       |  | $\downarrow$ |              | _ [      |          |                |          |          |                |     |              | 98       |          | 1         | $\neg$     |          | $\neg$      | П            |                |                    |                |
|            | 49       | $\perp$  |              |              |          |          |                |          |          |                |     |              | 99       | $\neg$   | 7         | $\neg$     |          |             | $\Box$       |                |                    |                |
|            | 50       |  |              |              |          |          |                |          |          |                |     |              | 00       | T        | $\neg$    | $\neg$     | $\neg$   | $\neg \neg$ |              | $\neg$         |                    | $\Box$         |

|              | CI       | aim      |              |   |     |              |          |                | 1         | Da | ite     |        |          |          |              |          |
|--------------|----------|----------|--------------|---|-----|--------------|----------|----------------|-----------|----|---------|--------|----------|----------|--------------|----------|
|              | Final    | Original |              |   |     |              |          |                |           |    |         |        |          |          |              |          |
|              |          | 51       | T            | 1 |     | 7            | _        | $\dagger$      | _         | H  | †       |        | T        | +        | 7            |          |
|              |          | 51<br>52 |              |   |     |              |          | Τ              |           |    | 1       |        |          | Ť        | 7            |          |
|              | <u> </u> | 53       |              |   |     |              |          |                |           |    | I       |        |          |          | $\Box$       |          |
|              |          | 54       |              |   |     | 4            |          | L              |           |    |         |        |          |          |              |          |
|              |          | 55       | 1            | 4 |     | 4            | _        | ┸              |           | _  | 1       |        | L        | ↓        | _            |          |
|              |          | 56       | $\downarrow$ | 4 | _   | 4            | _        | ╀              | 4         |    | 1       |        | _        | 1        | 4            |          |
| ĺ            |          | 57       | +            | 4 |     | 4            |          | ╀              | 4         | _  | 4       |        | L        | +        | 4            |          |
|              |          | 58<br>59 | +            | + | -   | +            |          | ╀              | -         |    | +       | _      | H        | ╬        | +            | _        |
| ł            |          | 60       | ╁╴           | + |     | +            |          | ╁╴             | $\dashv$  | _  | +       | _      | -        | ╁        | +            | _        |
| ł            |          | 61       | +            | + |     | ╁            |          | ╁              | 7         |    | ┿       | _      | -        | +        | +            | _        |
| Ì            |          | 62       | +            | + |     | +            |          | t              | +         |    | ╁       | -      | $\vdash$ | ╁        | +            | _        |
| Ì            |          | 63       | t            | 1 | _   | t            |          | t              | 1         | _  | t       |        | H        | ╁        | $^{\dagger}$ | -        |
| Ì            |          | 64       | T            | † | _   | T            |          | Ť              | 1         | _  | T       | _      |          | †        | †            | _        |
| Ī            |          | 65       | T            | 7 |     | Ť            |          | T              | 1         |    | 十       | ٦      |          | T        | †            | _        |
| [            |          | 66       |              | T |     | T            |          | T              | T         |    | 1       |        |          | T        | 十            | _        |
| ſ            |          | 67       |              |   |     |              |          | Γ              |           |    |         |        |          | Т        | T            | _        |
| L            |          | 68       |              |   |     |              |          |                | I         |    | Ι       |        |          |          | T            |          |
| ļ            |          | 69       | L            | 1 |     | $\downarrow$ |          | _              | 1         |    | L       | ╛      |          | L.       | I            |          |
| -            |          | 70       | L            | 4 |     | 1            |          | ļ.,            | 1         |    | $\perp$ | ┙      |          | L        | 1            |          |
| Į            |          | 71       | ┡            | 4 | _   | 1            |          |                | 4         |    | 1       | 4      |          | Ļ        | 1            |          |
| ŀ            |          | 72       | ╀            | 4 | _   | 4            |          | L              | 4         | _  | 1       | 4      |          | $\perp$  | ļ.           |          |
| ŀ            |          | 73<br>74 | ┼            | + |     | ╀            |          | -              | +         |    | ╀       | -      |          | ╀        | +            | _        |
| ŀ            |          | 75       | H            | + |     | ╀            | _        | ┝              | +         | _  | ╄       | +      |          | ⊢        | ╁            | _        |
| ł            |          | 76       | ╁╴           | t |     | +            | _        | <del> </del> – | Ŧ         | -  | ╁       | +      | _        | ╁        | ╁            | _        |
| t            |          | 77       | $\vdash$     | + | -   | t            | -        |                | +         | _  | ╁       | +      |          | ╁        | +            | =        |
| r            |          | 78       | $\vdash$     | t | _   | t            |          | $\vdash$       | $\dagger$ |    | ╁       | +      | _        | ┢        | +            | -        |
| r            |          | 79       | T            | † |     | t            | _        | r              | †         |    | t       | +      |          | -        | t            | ٦        |
| r            |          | 80       |              | t |     | t            | _        | -              | t         | _  | T       | 1      |          | 1        | t            | +        |
|              |          | 81       |              | T |     | T            |          |                | 1         |    | ✝       | Ť      |          | Т        | T            | ┪        |
| L            |          | 82       |              | I |     |              |          |                | Ī         |    |         | 1      |          | Ī        | T            | ٦        |
| L            |          | 83       |              | L |     |              |          |                | I         |    |         |        |          |          | Ι            |          |
| Ĺ            |          | 84       | L            | L |     | L            |          |                | L         |    |         | I      |          |          |              |          |
| $\downarrow$ |          | 85       |              | ļ |     | L            |          | _              | ╀         | _  |         | 1      |          |          | L            | ┙        |
| ŀ            |          | 86       | ļ            | L |     | -            | _        |                | 1         |    | ļ.,     | 1      |          | <u> </u> | Ļ            | ╝        |
| F            |          | 87<br>88 | _            | ┞ | _   | L            | 4        |                | +         |    | L       | 4      |          | <u> </u> | L            | 4        |
| $\vdash$     |          | 89       |              | ╀ | _   | ┞            | $\dashv$ |                | ł         | _  | ┝       | +      |          | L        | ╀            | _        |
| ┢            |          | 90       |              | H | -   | ┝            | 4        |                | ╀         | —. |         | +      |          | <u> </u> | ╀            | 4        |
| r            | $\neg$   | 91       |              | H | _   | H            | +        | _              | ╁         | _  | ┝       | t      | _        | <u> </u> | ┝            | $\dashv$ |
| $\vdash$     |          | 92       |              | t | _   | -            | +        |                | r         | _  |         | $^{+}$ |          | H        | -            | $\dashv$ |
|              |          | 93       | _            | ┢ |     | H            | 7        | _              | t         |    | H       | †      |          | _        | H            | ┨        |
|              |          | 94       |              | Γ |     |              | 7        |                | T         |    |         | t      |          |          | Ħ            | -        |
|              |          | 95       |              |   |     |              | 1        |                |           |    |         | Ť      |          | _        | Γ            | 7        |
| L            | $\Box$   | 96       |              |   |     |              |          |                | Γ         |    |         | I      |          |          |              | 7        |
| L            | $\perp$  | 97       |              | Ĺ | _   |              | I        |                | Ĺ         |    |         | I      |          |          | L            | ]        |
| $\vdash$     |          | 98       |              | L | _   |              | 4        |                | L         | _  |         | Ĺ      |          |          | Ĺ            | ]        |
| -            | -        | 99       |              |   | 4   |              | 4        | _              | $\vdash$  | 4  |         | 1      | 4        |          | L            | 4        |
|              |          | 111111   |              |   | - 1 |              | - 1      |                |           |    |         |        | - 1      |          |              | - 1      |

| C        | laim                            | Τ                | _        |  |              | D            | ate       |         | _              |           |
|----------|---------------------------------|------------------|----------|--|--------------|--------------|-----------|---------|----------------|-----------|
| Final    | Original                        |                  |          |  |              |              |           |         |                |           |
|          | 101                             | +-               | +        | -  | +            | _            | +         | +       | +              | +         |
|          | 102                             | +                | ╁        | +  | +            | +            | +         | +       | +              | +         |
| <u> </u> | 103                             | +                | $^{+}$   | +  | +            | +            | +         | +       | +              | +         |
|          | 104                             | +-               | +        | +  | +            | +-           | +         | +       | ╁              | +         |
|          | 105                             | 1                | 1        | 十  | $\top$       | Ť            | $\dagger$ | +       | +              | +         |
|          | 105<br>106                      |                  | 1        |  |              | T            | $\top$    | $\top$  |                | 1         |
|          | 107                             |                  | I        |  |              |              |           |         |                |           |
|          | 108                             | L                |          |  |              |              | $\perp$   |         |                |           |
|          | 109                             | ╄                | ↓_       | 1  | $\bot$       | 1            | 1         | $\perp$ | 4              |           |
|          | 110                             | ↓_               | $\perp$  | $\perp$  | <b>-</b>     | $\downarrow$ | ┵         | 4-      |                | _         |
|          | 111                             | +                | ╀        | - -  | +            | $\perp$      | - -       | +       | 4              | -         |
|          | 112                             | ╁                | ╀        | +  | +            | +            | +-        | +       | +              | ┿-        |
|          | 114                             | +                | ╁        | +-   | +            | +-           | ┿         | +       | -              | +         |
|          | 113<br>114<br>115               | ╁                | ╁        | +-   | +            | +            | +-        | +       | ╫              | -         |
|          | 116                             | <del>  -</del> - | ╁        | ╅  | +-           | +            | ╁         | ╁       | +              | +i        |
|          | 117                             | <b>†</b> –       | Ħ        | ╅╌   | 十            | +            | +         | +       | +              | +-        |
|          | 118                             |                  | $\vdash$ | †  | $^{+}$       | +            | $\top$    | +       | +              | +         |
|          | 119                             |                  | T        | T  | 1            | T            | 1         | 1       | +              | $\Box$    |
|          | 120                             |                  | -        | Τ  | 1            | T            |           | 7       | $\top$         | +         |
|          | 121<br>122<br>123               |                  |          |  |              | I            |           |         |                |           |
|          | 122                             |                  |          | $oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}$ |              | L            | $\perp$   |         | I              | $\square$ |
|          | 123                             |                  | L        | ļ  | ┸            | $\perp$      | ┸         | $\perp$ |                |           |
|          | 124                             | _                | L        | 4  | 1_           | ╄            | 4         | 1_      | ┺              | Ш         |
|          | 125                             | ├-               |          | ┼  | <del> </del> | +            | +         | +-      | ╄              | $\sqcup$  |
|          | 127                             | ├                | -        | ╁  | +-           | +            | +         | ╀       | +-             | $\vdash$  |
|          | 124<br>125<br>126<br>127<br>128 | -                | ┝        | +  | ╁            | ╁            | +         | ╁       | +-             | +         |
| _        | 129                             |                  | -        | +  | ╁            | +            | +         | ╁       | +-             | $\vdash$  |
|          | 130                             |                  | -        |  | +            | ╁            | ╁         | +       | ╁              | +         |
|          | 131                             | -                |          | 1  | 1            | †            | 1         | ╁       | ╁              |           |
|          | 132                             |                  | _        |  | 1            | T            | T         | 1       | †-             | $\vdash$  |
|          | 133                             |                  |          |  |              |              |           |         |                | П         |
|          | 134                             | <u> </u>         |          |  |              |              |           | L       |                |           |
|          | 135                             |                  |          | L  | $oxed{oxed}$ | Į.           | L         | L.      |                |           |
|          | 136                             | _                |          | 1  | <del> </del> | $\vdash$     | 1         | +-      | $\perp$        | Ш         |
|          | 137<br>138                      | $\vdash$         |          | <del> </del>   | $\vdash$     | +            | +-        | +-      | 1              | $\vdash$  |
|          | 139                             | $\vdash$         |          | $\vdash$   | $\vdash$     | ┼            | +         | +       | <del> </del> — | $\vdash$  |
|          | 140                             |                  |          | $\vdash$   | $\vdash$     | $\vdash$     | +         | +-      | +              | H         |
| $\dashv$ | 141                             | $\dashv$         |          | 1  | +-           | $\vdash$     | $\vdash$  | +-      | +              | Н         |
| -+       | 142                             |                  |          | $\vdash$   | <u> </u>     | $\vdash$     | +         | +       | <del> </del>   | Н         |
|          | 143                             |                  |          |  |              | †            |           | t       | T              | $\Box$    |
|          | 144                             |                  |          |  |              |              | Γ         | $L^{-}$ | I              | П         |
| $\Box$   | 145                             |                  |          |  |              |              |           |         |                |           |
|          | 146                             | _[               |          |  |              | Ĺ            |           |         |                |           |
|          | 147                             | _                |          | L  | L            |              |           |         | _              |           |
|          | 148                             | _                | _        | <u> </u>   | <u> </u>     | $\vdash$     | _         | ـــ     | <u> </u>       |           |
| $\dashv$ | 149                             | $\dashv$         |          | _  | <u> </u>     | -            | <u> </u>  | ↓_      | <u> </u>       | Ш         |
|          | 150                             | _1               |          |  | L            | 1            | 1         | 1       | l              |           |